#5

SEQUENCE LISTING

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YU, XING XIAN

<120> CGI-69 COMPOSITIONS AND METHODS OF USE

<130> 10716/66

<140> 09/888,358
<141> 2001-06-22

<150> 60/213,307
<151> 2000-06-22

<160> 18

<170> PatentIn Ver. 2.1

<210> 1
<211> 1114
<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<210> 3
<211> 359
<212> PRT
<213> Homo sapiens

<400> 3

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Ala Ser Gly Thr Gly Ala Val Val Thr Ser Leu Phe Met Thr Pro Leu
             20                  25                  30

Asp Val Val Lys Val Arg Leu Gln Ser Gln Arg Pro Ser Met Ala Ser
         35                  40                  45

Glu Leu Met Pro Ser Ser Arg Leu Trp Ser Leu Ser Tyr Thr Lys Leu
     50                  55                  60

Pro Ser Ser Leu Gln Ser Thr Gly Lys Cys Leu Leu Tyr Cys Asn Gly
 65                  70                  75                  80

Val Leu Glu Pro Leu Tyr Leu Cys Pro Asn Gly Ala Arg Cys Ala Thr
                 85                  90                  95

Trp Phe Gln Asp Pro Thr Arg Phe Thr Gly Thr Met Asp Ala Phe Val
            100                 105                 110

Lys Ile Val Arg His Glu Gly Thr Arg Thr Leu Trp Ser Gly Leu Pro
        115                 120                 125

Ala Thr Leu Val Met Thr Val Pro Ala Thr Ala Ile Tyr Phe Thr Ala
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Tyr Asp Gln Leu Lys Ala Phe Leu Cys Gly Arg Ala Leu Thr Ser Asp
145                 150                 155                 160
```

```
Leu Tyr Ala Pro Met Val Ala Gly Ala Leu Ala Arg Leu Gly Thr Val
                165                 170                 175

Thr Val Ile Ser Pro Leu Glu Leu Met Arg Thr Lys Leu Gln Ala Gln
            180                 185                 190

His Val Ser Tyr Arg Glu Leu Gly Ala Cys Val Arg Thr Ala Val Ala
        195                 200                 205

Gln Gly Gly Trp Arg Ser Leu Trp Leu Gly Trp Gly Pro Thr Ala Leu
    210                 215                 220

Arg Asp Val Pro Phe Ser Ala Leu Tyr Trp Phe Asn Tyr Glu Leu Val
225                 230                 235                 240

Lys Ser Trp Leu Asn Gly Leu Arg Pro Lys Asp Gln Thr Ser Val Gly
                245                 250                 255

Met Ser Phe Val Ala Gly Gly Ile Ser Gly Thr Val Ala Ala Val Leu
            260                 265                 270

Thr Leu Pro Phe Asp Val Val Lys Thr Gln Arg Gln Val Ala Leu Gly
        275                 280                 285

Ala Met Glu Ala Val Arg Val Asn Pro Leu His Val Asp Ser Thr Trp
    290                 295                 300

Leu Leu Leu Arg Arg Ile Arg Ala Glu Ser Gly Thr Lys Gly Leu Phe
305                 310                 315                 320

Ala Gly Phe Leu Pro Arg Ile Ile Lys Ala Ala Pro Ser Cys Ala Ile
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Met Ile Ser Thr Tyr Glu Phe Gly Lys Ser Phe Phe Gln Arg Leu Asn
            340                 345                 350

Gln Asp Arg Leu Leu Gly Gly
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<210> 4
<211> 351
<212> PRT
<213> Homo sapiens

<400> 4

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Met Ala Asp Gln Asp Pro Ala Gly Ile Ser Pro Leu Gln Gln Met Val
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Ala Ser Gly Thr Gly Ala Val Val Thr Ser Leu Phe Met Thr Pro Leu
             20                  25                  30

Asp Val Val Lys Val Arg Leu Gln Ser Gln Arg Pro Ser Met Ala Ser
         35                  40                  45

Glu Leu Met Pro Ser Ser Arg Leu Trp Ser Leu Ser Tyr Thr Lys Trp
     50                  55                  60
```

```
Lys Cys Leu Leu Tyr Cys Asn Gly Val Leu Glu Pro Leu Tyr Leu Cys
 65                  70                  75                  80

Pro Asn Gly Ala Arg Cys Ala Thr Trp Phe Gln Asp Pro Thr Arg Phe
                85                  90                  95

Thr Gly Thr Met Asp Ala Phe Val Lys Ile Val Arg His Glu Gly Thr
            100                 105                 110

Arg Thr Leu Trp Ser Gly Leu Pro Ala Thr Leu Val Met Thr Val Pro
        115                 120                 125

Ala Thr Ala Ile Tyr Phe Thr Ala Tyr Asp Gln Leu Lys Ala Phe Leu
    130                 135                 140

Cys Gly Arg Ala Leu Thr Ser Asp Leu Tyr Ala Pro Met Val Ala Gly
145                 150                 155                 160

Ala Leu Ala Arg Leu Gly Thr Val Thr Val Ile Ser Pro Leu Glu Leu
                165                 170                 175

Met Arg Thr Lys Leu Gln Ala Gln His Val Ser Tyr Arg Glu Leu Gly
            180                 185                 190

Ala Cys Val Arg Thr Ala Val Ala Gln Gly Gly Trp Arg Ser Leu Trp
        195                 200                 205

Leu Gly Trp Gly Pro Thr Ala Leu Arg Asp Val Pro Phe Ser Ala Leu
    210                 215                 220

Tyr Trp Phe Asn Tyr Glu Leu Val Lys Ser Trp Leu Asn Gly Phe Arg
225                 230                 235                 240

Pro Lys Asp Gln Thr Ser Val Gly Met Ser Phe Val Ala Gly Gly Ile
                245                 250                 255

Ser Gly Thr Val Ala Ala Val Leu Thr Leu Pro Phe Asp Val Val Lys
            260                 265                 270

Thr Gln Arg Gln Val Ala Leu Gly Ala Met Glu Ala Val Arg Val Asn
        275                 280                 285

Pro Leu His Val Asp Ser Thr Trp Leu Leu Leu Arg Arg Ile Arg Ala
    290                 295                 300

Glu Ser Gly Thr Lys Gly Leu Phe Ala Gly Phe Leu Pro Arg Ile Ile
305                 310                 315                 320

Lys Ala Ala Pro Ser Cys Ala Ile Met Ile Ser Thr Tyr Glu Phe Gly
                325                 330                 335

Lys Ser Phe Phe Gln Arg Leu Asn Gln Asp Arg Leu Leu Gly Gly
            340                 345                 350
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<210> 5
<211> 25

<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 5
ctgaagcttc aagatggctg accag 25

<210> 6
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 6
gtccttgcct ccttgcccct ttcag 25

<210> 7
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 7
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<210> 8
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 8
ccacctggtt tcaagaccct ac 22

<210> 9
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 9
cgcttcactg gcaccatgga tgc 23

<210> 10
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 10
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<210> 11
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 11
agcgagctga tgccttcct 19

<210> 12
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 12
cagactgtgg agcttctcct ataccaaatt gcc 33

<210> 13
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 13
ccctgtggat tggagagagg 20

<210> 14
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 14
ctggctcctg cttcgca 17

<210> 15
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Probe

<400> 15
tccgggctga atctggcacc a 21

<210> 16
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 16
ggaagcctgc aaagagtccc 20

<210> 17
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: FLAG tag

<400> 17
Asp Tyr Lys Asp Asp Asp Asp Lys
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<210> 18
<211> 357
<212> PRT
<213> Mus sp.

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1 5 10 15

Gly Ala Gly Ala Val Val Thr Ser Leu Phe Met Thr Pro Leu Asp Val
20 25 30

Val Lys Val Arg Leu Gln Ser Gln Arg Pro Ser Ala Thr Ser Glu Leu
35 40 45

Thr Thr Pro Ser Arg Phe Trp Ser Leu Ser Tyr Thr Lys Ser Ser Ser
50 55 60

```
Ala Leu Gln Ser Pro Gly Lys Cys Leu Leu Tyr Cys Asn Gly Val Leu
 65                  70                  75                  80

Glu Pro Leu Tyr Leu Cys Pro Asn Gly Thr Arg Cys Ala Thr Trp Phe
                85                  90                  95

Gln Asp Pro Thr Arg Phe Thr Gly Thr Leu Asp Ala Phe Val Lys Ile
            100                 105                 110

Val Arg His Glu Gly Thr Arg Thr Leu Trp Ser Gly Leu Pro Ala Thr
        115                 120                 125

Leu Val Met Thr Val Pro Ala Thr Ala Ile Tyr Phe Thr Ala Tyr Asp
    130                 135                 140

Gln Leu Lys Ala Phe Leu Cys Gly Gln Ser Leu Thr Ser Asp Leu Tyr
145                 150                 155                 160

Ala Pro Met Val Ala Gly Ala Leu Ala Arg Met Gly Thr Val Thr Val
                165                 170                 175

Val Ser Pro Leu Glu Leu Val Arg Thr Lys Leu Gln Ala Gln His Val
            180                 185                 190

Ser Tyr Arg Glu Leu Ala Ser Ser Val Gln Ala Ala Val Thr Gln Gly
        195                 200                 205

Gly Trp Arg Ser Leu Trp Leu Gly Trp Gly Pro Thr Ala Leu Arg Asp
    210                 215                 220

Val Pro Phe Ser Ala Leu Tyr Trp Phe Asn Tyr Glu Leu Val Lys Ser
225                 230                 235                 240

Trp Leu Ser Gly Leu Arg Pro Lys Asp Gln Thr Ser Val Gly Ile Ser
                245                 250                 255

Phe Val Ala Gly Gly Ile Ser Gly Met Val Ala Ala Thr Leu Thr Leu
            260                 265                 270

Pro Phe Asp Val Val Lys Thr Gln Arg Gln Met Ser Leu Gly Ala Val
        275                 280                 285

Glu Ala Val Arg Val Lys Pro Pro Arg Val Asp Ser Thr Trp Leu Leu
    290                 295                 300

Leu Arg Arg Ile Arg Ala Glu Ser Gly Thr Arg Gly Leu Phe Ala Gly
305                 310                 315                 320

Phe Leu Pro Arg Ile Ile Lys Ala Ala Pro Ser Cys Ala Ile Met Ile
                325                 330                 335

Ser Thr Tyr Glu Phe Gly Lys Ser Phe Phe Gln Arg Leu Asn Gln Glu
            340                 345                 350

Gln Pro Leu Gly Arg
        355
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